


Name: Enrolment No:			
UPES End Semester Examination, May 2024			
Course: Regulation and Standards Program: Automation and Robotics Engineering Time : 03 hrs. Course Code: ECEA8002 Instructions: 1. All the questions are compulsory. 2. This question Paper contains 11 questions. 2. Calculators are not allowed.		Semester: IV Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	Define the terms "regulations" and "standards" in the context of business operations.	4	CO1
Q 2	Briefly explain two main purposes of regulations in an industry.	4	CO2
Q 3	What is the primary difference between a regulatory body and a standards organization?	4	CO1
Q 4	Discuss the Structure and Organization of International Standardization (ISO).	4	CO2
Q 5	Briefly discuss about the Food and Drug Administration (FDA).	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Discuss the potential benefits and drawbacks of having extensive regulations in a particular industry (e.g., food safety, pharmaceuticals).	10	CO3
Q 7	Briefly explain the role of industry standards in promoting fair competition.	10	CO2
Q 8	Describe two ways that regulations can impact the cost of products and services for consumers.	10	CO1
Q 9	Analyze a specific regulation related agriculture field and explain how it impacts the safety and effectiveness of a product or service.	10	CO4
OR			

	Compare and contrast two relevant standards for a particular industry. Explain which standard you would prioritize in a specific scenario and justify your reasoning.		
SECTION-C (2Qx20M=40 Marks)			
Q 10	You are the manager of a company that manufactures children's toys. A new regulation has been implemented regarding the allowable lead content in paint used on toys. Explain the steps you would take to ensure your company complies with this new regulation.	20	CO3
Q 11	<p>New technologies like artificial intelligence and autonomous vehicles raise unique safety and ethical concerns. Discuss the challenges in developing regulations for such fields. How can existing standards be adapted or new ones created to ensure responsible development and deployment of these technologies?</p> <p style="text-align: center;">OR</p> <p>International trade relies on streamlined processes and consistent standards. However, individual countries may have stricter regulations for specific products or industries. Explain the potential conflicts that can arise in this scenario. How can international cooperation help to harmonize regulations while still addressing national concerns?</p>	20	CO5